



**Dr. V. N. Bedekar Institute of Management, Thane**  
**Teaching Plan (MMS)**  
**Academic Year (2016-2017)**

Programme Name: MMS

Name of the Course: World Class Manufacturing

Maximum marks: 100

Name of the Faculty: Prof. Vibhuti Save

Mobile No: 9029066875

Weblink:

No. of Sessions: 15

Email: vsave@vpmthane.org

**Learning Objectives:**

- To meet global markets which are more turbulent, dynamic and complex.
- To understand the relevance of World Class Performance in competitive framework
- To understand global markets relationship to world class performance
- To build the framework for world class manufacturing
- To understand the state Indian manufacturing in relation to world class standards and performance issues

**Reference Books:**

1. World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.
2. World class manufacturing- K . Shridhar Bhat
3. The Toyota way- Jeffrey K Liker
4. Toyota Production system- Taichi Ohno
5. Kaizen- Masaki Imami- Beyond TQM by
6. Out of Crisis- Dr Deming

**Plan:**

Session No	Topics to be covered	Books referred/ Recommended/ References- Print/Articles/ News/Research papers/ Online database/ Software /Simulations used	Learning outcomes	Evaluation of Students understanding by MCQs, Quiz, Short Test
1	1. World class manufacturing and information age. 2. Sub Topics. a) Emergency of information age. b) Completing in information age	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	<ul style="list-style-type: none"><li>• Evolution &amp; Importance of Information age</li><li>• What is Conceptual</li></ul>	Discussion



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	business challenges operating environment of information age		Age	
2	<ul style="list-style-type: none"> <li>c) Indian global completeness and manufacturing excellent</li> <li>d) Time based competition, managing knowledge</li> <li>e) Problems in manufacturing industry co-ordination control Fragmented information infrastructure</li> <li>f) Understanding, Attribute of world class status.</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	Importance of co-ordinated information flow	Debate on: “Customer is a king or not for world class manufacturing”
3	<p><b>Gaining competitive advantage through world class manufacturing.</b></p> <ul style="list-style-type: none"> <li>1. Varies concepts of world class manufacturing</li> <li>2. What is world class manufacturing</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	WCM is implementation of more than one lean technique as per organization’s need	
4	<ul style="list-style-type: none"> <li>3. Various models of WCM,</li> <li>4. Various models of WCM or approaches to WCM.</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	How to achieve WCM by building strategies	
5	<ul style="list-style-type: none"> <li>5. Practices of WCM</li> <li>6. Meaning of WCM supplier, customer manufacturer quality in WCM.</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	WIN-WIN to all participants of supply chain	
6	<p><b>Systems &amp; Tools for World Class manufacturing</b></p> <ul style="list-style-type: none"> <li>1. Overview of systems &amp; tools</li> <li>2. Information management tools</li> <li>3. Material processing and handling tools</li> </ul>	The Toyota way- Jeffrey K Liker	Conceptual Knowledge of lean tools	Practical Approach Activities learning’s Discussion



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7	<ul style="list-style-type: none"> <li>4. Product, Process design tools</li> <li>5. Flexible manufacturing systems rapid prototyping</li> <li>6. Lean Production tools.</li> <li>7. An assessment Manufacturing systems</li> </ul>	The Toyota way- Jeffrey K Liker		
8	<p><b>World class manufacturing- The Indian scenario.</b></p> <ul style="list-style-type: none"> <li>1. Competitiveness of Indian manufacturing. Manufacturing performance &amp; Planned strategies of Indian manufacturing.</li> <li>2. Manufacturing readiness of Indian firms</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	Current status of India for WCM	Class test
9	<ul style="list-style-type: none"> <li>3. Manufacturing objectives and strategy</li> <li>4. Use of Management tools and technologies classification by breadth of Information Technology.</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.		
10	<ul style="list-style-type: none"> <li>5. Infrastructure and depth of manufacturing applications.</li> <li>6. Strategy for world class status, and information technology.</li> <li>7. Is India ready for world class manufacturing</li> </ul>	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.		
11	<b>Leading India towards world class</b>	World class manufacturing A	SWOT Analysis of India	



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	<b>manufacturing</b> 1. Business strategy & global competitiveness. 2. Manufacturing strategies for information age. 3. Developing strategic thinking as world class as STRATEGIC PERSPECTIVE	strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.	towards WCM	
12	4. Issues in strategic planning 5. Barriers to using information technology strategically. 6. World Class Strategic planning and Implementation	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.		
13	7. Need for performance measurement 8. Various methods of measurement 9. Importance of Human diversions in world class- morale and team building.	World class manufacturing A strategic perspective- B.S Sahay, K.B.C Saxena, Ashish Kumar.		
14	Presentations			
15	Case studies			Group Evaluation

**2. Practical Approach : Other activities (At least 4 distinct activities)**

Sr. No.	Activity Name	Topic Covered	Learning outcomes	Source
1	To present the chapters from assigned book: The Toyota Way-Jeffrey K. Liker 1. David Meier 2. How to implement Lean Manufacturing-Lonnie Wilson 3. Total Productive Maintenance-Steven Borris		Summarize Knowledge of operations subject	Mentioned Books
2	To implement following concepts at their choices areas: • 5S		Conceptual clarity	Area or Organization as per students choice



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	<ul style="list-style-type: none"><li>• Poka-Yoke</li><li>• Kanban</li></ul>			
2	Industry Visit	5s, Inventory Management etc	Problems to implement those concepts & sustain the same	JSW Steel & Kokuyo Camline Ltd
4	Videos / Simulation	Videos of Related topics	Knowledge up gradation about MM & T	Internet



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<b>Internal Assessment Details</b>					
<b>Sr. No.</b>	<b>Roll No.</b>	<b>Student Name</b>	<b>Book Assigned</b>	<b>Date of Presentation</b>	<b>Project Assigned</b>
1	A 01	Adhikari Ajinkya Vaman Neeta	The Toyota Way-Chapter 1 & 2	16.12.2016	5s 24.02.2017
2	A 02	Agawane Sujit Vitthal Laxmi	The Toyota Way-Chapter 3 & 4	23.12.2016	
3	A05	Bhandare Pournima Vikas Lata	The Toyota Way-Chapter 5 & 6	30.12.2016	
4	A 06	Bhosale Harshada Tanaji Savita	The Toyota Way-Chapter 7 & 8	6.01.2017	
5	A 11	Chaskar Pankaj Armaram Neelam	The Toyota Way-Chapter 9 & 10	13.01.2017	
6	A 15	Date Sanket Sanjay	The Toyota Way-Chapter 11 & 12	20.01.2017	
7	A 20	Durge Vrushali B	The Toyota Way-Chapter 13 & 14	27.01.2017	
8	A 24	Jadhav Nitin Bhaskar Lata	The Toyota Way-Chapter 15 & 16	03.02.2017	
9	A 30	Legha Manisha Mahabir Badami	The Toyota Way-Chapter 17 & 18	10.02.2017	
10	A 31	Mahadik Prachi D	The Toyota Way-Chapter 19 & 20	17.02.2017	
1	A 32	Maidamwar Poonam Bhaurao Mangala	How to implement Lean Manufacturing-Chapter 1 & 2	16.12.2016	Poka-Yoke 03.03.2017
2	A 36	Nadgoundi Sharad Jaisingh Asha	How to implement Lean Manufacturing-Chapter 3 & 4	23.12.2016	
3	A 38	Paranjape Aditya Makarand Madhuri	How to implement Lean Manufacturing-Chapter 5 & 6	30.12.2016	
4	A 40	Patil Prerana Vilas Nalini	How to implement Lean Manufacturing-Chapter 7 & 8	6.01.2017	
5	A 42	Patil Sanket Sunil Sharmila	How to implement Lean Manufacturing-Chapter 9 & 10	13.01.2017	
6	A 44	Pol Suraj Kumar Shubhangi	How to implement Lean Manufacturing-Chapter 11 & 12	20.01.2017	
7	A 47	Ratnaparkhi Mukeshkumar Ramesh Shobha	How to implement Lean Manufacturing-Chapter 13 & 14	27.01.2017	
8	A 50	Sawant Parag Pravin Manali	How to implement Lean Manufacturing-Chapter 15 & 16	03.02.2017	
9	A 57	Tambde Anagha Sanjay Savita	How to implement Lean Manufacturing-Chapter 17 & 18	10.02.2017	
10	A 58	Vidhate Pooja Sunil Sanjeevani	How to implement Lean Manufacturing-Chapter 19 & 20	17.02.2017	
1	B 15	Gawas Ketan	Total Productive Maintenance-Chapter 1 & 2	16.12.2016	Kanban 10.03.2017
2	B 20	Kamble Vishal Gautam Maya	Total Productive Maintenance-Chapter 3	23.12.2016	



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3	B 23	Kharbe Maarij Shahid Rahat	Total Productive Maintenance-Chapter 4 & 5	30.12.2016
4	B 40	Rane Komal Sanjeev Smita	Total Productive Maintenance-Chapter 6 & 7	6.01.2017
5	B 28	Mhatre Vaibhav Dattaprasad Geeta	Total Productive Maintenance-Chapter 8	13.01.2017
6	B 31	Parate Swapnil Pralhad Kalpana	Total Productive Maintenance-Chapter 9	20.01.2017
7	B 44	Sapkal Manoj Yashwant Dropada	Total Productive Maintenance-Chapter 10 & 11	27.01.2017
8	B 33	Patil Bhavesh Dwarkanath Radha	Total Productive Maintenance-Chapter 12	03.02.2017
9	B 48	Shinde Dhananjay Rajendra Sarla	Total Productive Maintenance-Chapter 13	10.02.2017



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**Evaluation:**

**I) Internal:**

<b>Component</b>	<b>Details</b>	<b>Marks</b>
Class Test	20 marks class test: 15 Marks MCQs & 5 Case to solve	20
Presentation	Practical Projects on Materials Management	10
Case Study	Group discussions & debates	5
Participation		
Others	Attendance	5

**Signature of Faculty**

**Signature of the Co-ordinator**